

OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Version 3

Project index number and acronym	CE-1444, InterGreen-Nodes
Output number and title	O.T3.2, Highly visible and practical development and demonstration of technical solutions
Investment number and title (if applicable)	Not applicable
Responsible partner (PP name and number)	Budapesti Szabadkikötő Logisztikai Zrt., PP10
Project website	https://www.interreg-central.eu/Content.Node/InterGreen-Nodes.html
Delivery date	11/2020

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature, demonstration character and transnational added value

The main challenge is that how the construction and operation of new or the renewal of existing buildings (both office and warehouse) can be part of the greening efforts of the operation of a port. The pilot action is to present the LEED assessment system and examples of certified buildings in the operation of the Freeport of Budapest as nowadays it is a requirement to plan, construct and accredit the new properties in a green certification system. More and more companies (tenants) are specifically searching for certified buildings for various reasons and as energy prices are going up it is of an utmost importance to minimize the cost of an operation of an enterprise. LEED is a globally accepted program - similar to BREEAM - that indicate a building was designed and constructed to a certain level of environmental responsibility. "LEED" stands for "Leadership in Energy and Environmental Design." It is a certification program run by the nonprofit U.S. Green Building Council (USGBC) and includes rating systems for everything from design to construction, operation and maintenance of homes, buildings and even complete neighborhoods.

LEED certification provides independent verification of a building or neighborhood's green features, allowing for the design, construction, operations and maintenance of resource-efficient, high-performing, healthy, cost-effective buildings. LEED is the triple bottom line in action, benefiting people, planet and profit.

LEED's thresholds are based on percentages, while BREEAM uses quantitative standards. LEED is considered to be simpler in its approach, while BREEAM is more academic and rigorous.

LEED projects earn points across nine basic areas that address key aspects of green buildings. Based on the number of points achieved, a project earns one of four LEED rating levels (certified, silver, gold, platinum).

The pilot demonstrated the assessment process and the final product (certified buildings). There are 2 buildings in the Port (C1 and E2 warehouse/offices buildings) which are certified as part of the greening efforts of the Port as LEED Silver. So this pilot demonstrated that how such an accreditation process can become the part of the general greening of the nodes also meeting the needs of the clients and it can be easily adapted to other ports/nodes.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

HU11 - Budapest

Investment costs (EUR), if applicable

Not applicable.

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

Assessed buildings have a positive impact on environment in many ways as it certifies the buildings in Integrative process

- Location and transportation
- Sustainable sites
- Water efficiency
- Energy and atmosphere
- Materials and resources
- Indoor environmental quality
- Innovation
- Regional priority

including not only the operation but rather the planning and building process itself. Therefore certified buildings have a less impact on the environment, also use less energy and other resources to operate etc. so both the tenants and the whole community benefits from them.

LEED in general has an uptake as all levels of building regulations have become stricter to encourage the construction of more energy efficient buildings. Meanwhile also tenants putting more emphasis on environmental awareness.

Additional funds in the form of grant or subsidy is not foreseen.

Sustainability of the pilot action results and transferability to other territories and stakeholders

Sustainability will be ensured in three ways: 1. The implementation of the pilot will lead to future use of these concepts in the original user-terminals and ports. 2. The leader-follower concept leads to additional users using the solutions. 3. The Toolbox (developed in the project) leads to implementation by other users, by providing step by step instructions. The implementation of the pilot leads to long term use, as Pilot implementation already overcomes the main barrier of long term use: lack of Information.

PP10 will continue the operation and construction of further buildings following BREEAM principles. Other stakeholders and territories can easily adopt the pilot results as there are several certifying institutions throughout Europe. Also important that it can be used during the conversion of old office and warehouse buildings. Results of the pilot can be directly transferred to other territories not involved in the project.

Regarding transferability: all results are summarized in the planning Toolbox (D.T3.3.3), which also explains how to transfer the results of WPT3.

If applicable, contribution to/ compliance with:

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

The relevant regulatory requirements are not applicable.

LEED ultimately - as described above - has an impact on the greening of the hub operations via more sustainable buildings thus has a direct impact on sustainable development.

Pilot does not have a negative environmental effect.

Impact of the pilot action on horizontal principles is neutral.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links
If applicable, additional documentation, pictures or images to be provided as annex

Report:

[https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.4-Report-\(2022-06-16\).pdf](https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-InterGreen-DT3.2.4-Report-(2022-06-16).pdf).

Handbook Part 2 Buildings:

<https://www.interreg-central.eu/Content.Node/InterGreen-Nodes/CE1444-D.T3.3.3-Part1-Building.pdf>

Position of LEED and BREEAM certified buildings in the Freeport of Budapest:

